

Application No. 10/775,519
Response and Amendment dated December 30, 2005
Reply to Office Action of November 1, 2005
Docket Number 18525/04071

AMENDMENTS TO THE CLAIMS

Listing of the Claims:

1. (currently amended): A system for draining fluid from a layered soil profile, comprising:
 - (a) a layered soil profile comprising at least a first layer and a second layer beneath said first layer, wherein the material of said first layer is different from the material of said second layer;
 - (b) means for extracting a sample of said layered soil profile in order to determining the particle sizes of the materials comprising said layers;
 - (c) ~~means for determining~~ and the fluid retention properties of said layers based on said particle size;
 - (d) a plurality of elongated porous drainage members, wherein each of said drainage members further comprises a length of fiberglass having a distribution of pore sizes compatible with said particle sizes and said fluid retention properties;
 - (e) means for inserting said drainage members into said layered soil profile at substantially regular intervals to form an array; and
 - (f) wherein said drainage members extend from said first layer substantially through said second layer and provide a substantially continuous porous pathway for draining said fluid from said layered soil profile.
2. (currently amended): The system of claim 1, wherein said first layer further comprises a sandy root zone and said second layer further comprises a gravel layer.
3. (previously presented): The system of claim 1, wherein the orientation of said drainage members within said soil profile is substantially vertical.
4. (previously presented): The system of claim 1, wherein each length of fiberglass further comprises at least one of fiberglass rope and fiberglass tape.
5. (previously presented): The system of claim 4, wherein said length of fiberglass has a diameter of about 0.64 to 2.54 cm.

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6. (original): The system of claim 1, wherein said fluid is perched water retained in one or more layers of said layered soil profile.

Claims 7-11 (cancelled)

Claims 12-20 (withdrawn)

21. (cancelled): The system of claim 1, wherein said soil profile is a putting green.

22. (previously presented): The system of claim 1, wherein the drainage members are spaced about 24 inches (61 cm) from one another.